

Appl. No. 09/842,161
Reply to Official Action of September 9, 2005

IN THE CLAIMS

1. (Previously Presented) An oil-in-water emulsion comprising:

(A) a hydrophilic surface active agent, that has a dynamic surface tension of 57

mN/m or less,

(B) one or more oily component(s) and

(C) water,

wherein the weight ratio of component (B) is more than 11.67 based on 1 of the component (A),

wherein said emulsion has an average particle size ranging from 0.01 to 0.2 μm .

2. (Previously Presented) The oil-in-water emulsion according to Claim 1 having a

light transmittance at 550 nm of 50% or more.

3. (Cancelled)

4. (Previously Presented) The oil-in-water emulsion according to Claim 1,

wherein component (B) comprises a liquid oil component and a solid fatty material,

and

the emulsion has a viscosity ranging from 200 to 1,000,000 mPa•s at 25 °C.

5. (Previously Presented) The oil-in-water emulsion according to Claim 2,

wherein component (B) comprises a liquid oil component and a solid fatty material,
and

the emulsion has a viscosity ranging from 200 to 1,000,000 mPa•s at 25°C.

6. (Previously Presented) The oil-in-water emulsion according to Claim 1, wherein
said emulsion is obtained by applying a shear force corresponding to a shear rate of 1,000,000
s⁻¹ or more to a mixture of the component (A), component (B) and component (C).

7. (Previously Presented) The oil-in-water emulsion according to Claim 2, wherein
said emulsion is obtained by applying a shear force corresponding to a shear rate of 1,000,000
s⁻¹ or more to a mixture of the component (A), component (B) and component (C).

8. (Previously Presented) A liquid cosmetic comprising the oil-in-water emulsion
according to Claim 4 and an aqueous medium.

9. (Previously Presented) A liquid cosmetic comprising the oil-in-water emulsion
according to Claim 5 and an aqueous medium.

10. (Previously Presented) The oil-in-water emulsion of Claim 1, wherein said
surface active agent is a nonionic and has an HLB value of 9 or more.

11. (Previously Presented) The oil-in-water emulsion of Claim 1, wherein said

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surface active agent is anionic.

12. (Previously Presented) The oil-in-water emulsion of Claim 1, wherein said surface active agent is cationic.

13. (Previously Presented) The oil-in-water emulsion of Claim 1, wherein said surface active agent is amphoteric.

14. (Previously Presented) The oil-in-water emulsion of Claim 1, further comprising a water-soluble alcohol.

15. (Previously Presented) The oil-in-water emulsion of Claim 1 that is produced using a high-pressure commercial emulsifier that applies a shear force corresponding to a shear rate of $10,000\text{ s}^{-1}$ or more.

16. (Previously Presented) A liquid cosmetic comprising
the oil-in-water emulsion according to Claim 1,
an aqueous medium and
further comprising a water-soluble high polymer.

17. (Previously Presented) A composition comprising the oil-in-water emulsion of
Claim 1 and a water-soluble or oil-soluble component selected from the group consisting of a

chelating agent, a pH adjusting agent, an antiseptic, a thickener, a drug component and a plant component.

18. (Previously Presented) A cosmetic comprising the oil-in-water emulsion of

Claim 1.

19. (Previously Presented) A hair liquid, a hair mousse, a shampoo, a rinse, a shaving cosmetic, an after-shave lotion, a body lotion, a face lotion, a toilet lotion, a moisturizing lotion, a bath liquid, or a body shampoo comprising the oil-in-water emulsion of
Claim 1.

20. (Previously Presented) A method of making an oil-in-water emulsion comprising:

(A) a hydrophilic surface active agent, having a dynamic surface tension of 57 mN/m or less,

(B) an oily component and

(C) water,

wherein the weight ratio of component (B) is more than 10 based on 1 of the component (A) comprising:

applying a shear force corresponding to a shear rate of $10,000\text{ s}^{-1}$ or more to a mixture of component (A), component (B) and component (C) for a time and under conditions suitable for forming an emulsion having an average particle size ranging from 0.01 to $0.2\text{ }\mu\text{m}$.

21. (Previously Presented) The oil-in-water emulsion of Claim 1, wherein said surface active agent has a dynamic surface tension of 55 mN or less.

22. (Previously Presented) The oil-in-water emulsion of Claim 1, wherein said oily component has a surface tension of 29 mN/m or less.

23 (Previously Presented): The oil-in-water emulsion of Claim 1, wherein said oily component is a silicone oil.

24 (Previously Presented): The oil-in-water emulsion of Claim 1, wherein said oily component is a fluorine based oil.

25 (Previously Presented): The oil-in-water emulsion of Claim 1, wherein said one or more oily component(s) is selected from the group consisting of liquid paraffin, squaline, neopentyl glycol dicaprate, ethylene glycol monolauryl ether, perfluoro polyether and dimethyl polysiloxane.

26 (Previously Presented): The oil-in-water emulsion of Claim 1, wherein said hydrophilic surface active agent is POE alkyl ether.

27 (Previously Presented): The oil-in-water emulsion of Claim 1, wherein said hydrophilic surface active agent is N-acyl glutamic acid salt.

28 (Previously Presented): The oil-in-water emulsion of Claim 27, wherein said hydrophilic surface active agent is monosodium N-laurylglutamate.

29 (Previously Presented): The oil-in-water emulsion of Claim 1, wherein said hydrophilic surface active agent is a higher fatty acid amide sulfonic acid salt.

30 (Previously Presented): The oil-in-water emulsion of Claim 29, wherein said hydrophilic surface active agent is N-stearoyl-N-methyltaurine sodium salt.

31 (Previously Presented): The oil-in-water emulsion of Claim 1, wherein said hydrophilic surface active agent is selected from the group consisting of N-stearoylarginine monosodium salt, N-stearoyl-L-glutamic acid monosodium salt, N-stearoyl-N-methyltaurine sodium salt, oleic acid triethanolamine salt, polyoxyethylene(4) lauryl ether phosphate sodium salt, polyoxyethylen(6) tridecyl ether acetate sodium salt, polyoxyethylene(30) cetyl ether, and stearyltrimethylammonium chloride.